SIEMENS

Data sheet 3RT2015-2AB01



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 24 V AC, 50 / 60 Hz 3-pole, Size S00 Spring-type terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	4.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	

umber of poles for main current circuit	3
umber of NO contacts for main contacts	3
perating voltage	000.14
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
perational current	40.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	18 A
rated value	10 A
 up to 690 V at ambient temperature 60 °C rated value 	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
at AC-5a up to 690 V rated value	15.8 A
at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
 up to 400 V for current peak value n=20 rated value 	4 A
 up to 500 V for current peak value n=20 rated value 	3.8 A
 up to 690 V for current peak value n=20 rated value 	3.6 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value ninimum cross-section in main circuit at maximum AC-1	2.4 A 2.5 mm ²
ated value perational current for approx. 200000 operating	2.0 11111
ycles at AC-4	
at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
perational current	
at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
	V.U.
 with 3 current paths in series at DC-1 	15 A
 with 3 current paths in series at DC-1 at 24 V rated value 	15 A 15 A
 with 3 current paths in series at DC-1 	15 A 15 A 15 A

at 500 V rated value at 110 V rated value at 120 V rated value at 120 V rated value at 22 V rated value at 22 V rated value at 220 V rated value at 320 V rated value		
	— at 600 V rated value	0.7 A
	 at 1 current path at DC-3 at DC-5 	
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 20 V rated	— at 24 V rated value	15 A
	— at 110 V rated value	0.1 A
	 with 2 current paths in series at DC-3 at DC-5 	
with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths in series at DC-3 at DC-5 with 3 current paths value with 3 current paths in series at DC-3 at DC-5 with 3 current paths value with 3 current paths value with 3 current paths value with 5 current paths value and 3 current value with 5 current paths value and 3 current value with 5 current paths value and 5 current value with 5 current paths value and 5 current value with 5 current paths value and 5 current value with 5 current paths value and 5 current value with 5 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and 5 current value with 6 current paths value and	— at 24 V rated value	15 A
	— at 110 V rated value	0.25 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	15 A
	— at 110 V rated value	15 A
	— at 220 V rated value	1.2 A
operating power • at AC-3 — at 230 V rated value — at 600 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 600 V rated value • up to 230 V for current peak value n=20 rated value • up to 200 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to	— at 440 V rated value	0.14 A
at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at AC-3 at 230 V rated value at AC-3 at 230 V rated value at AC-3 at 230 V rated value at 500 V rated value at 600 V rated value at 600 V rated value poperating popmer for approx. 200000 operating cycles at AC-4 at 400 V rated value at 600 V rated value at 600 V rated value at 600 V rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value both thim whitesand current in cold operating state up to 40 °C imitted to 1 s switching at zero current maximum imited to 5 s switching at zero current maximum imited to 6 s switching at zero current maximum imited to 6 switching at zero current maximum imited to 6 switching at zero current maximum at AC-3 maximum at AC-4 maximum at A	— at 600 V rated value	0.14 A
	operating power	
- at 400 V rated value - at 500 V rated value - at 400 V rated value - at 400 V rated value - at 230 V rated value - at 230 V rated value - at 300 V rated value - at 500 V rated value - at 690 V rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up	• at AC-3	
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at AC-3e at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value poperating apparent power at AC-8a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value at 0 to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value at 0 to 500 V for current peak value n=30 rated value at 0 to 500 V for current peak value n=30 rated value at 60 to 5 switching at zero current maximum imited to 10 s switching at zero current maximum imited to 10 s switching at zero current maximum at AC-3 maximum at AC-4 maximum at AC-3 maximum at AC-4 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-3 maximum at AC-4 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 maximum at AC-4 maximum at AC-5 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9	— at 400 V rated value	3 kW
at AC-3e at 400 V rated value at 600 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 600 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C il imited to 5 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 70 switching frequency at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 maximum 500 th 200 th	— at 500 V rated value	3 kW
at AC-3e at 400 V rated value at 600 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 600 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value up to 600 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C il imited to 5 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 10 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 70 switching frequency at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 maximum 500 th 200 th	— at 690 V rated value	4 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 200 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak val		
- at 400 V rated value - at 500 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 200 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak val	— at 230 V rated value	1.5 kW
- at 500 V rated value - at 600 V rated value operating power for approx. 200000 operating cycles at Ac-4 - at 400 V rated value - at 690 V rated value - at 690 V rated value - up to 230 V for current peak value n=20 rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 600 V for current peak value n=20 rated value - up to 600 V for current peak value n=20 rated value - up to 600 V for current peak value n=20 rated value - up to 600 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 600 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 200 V for current peak value n=30 rated value - up to 200 V for current peak value n=30 rated value - up to 200 V for current peak value n=30 rated value - up to 200 V for current peak value n=30 rated value - up to 200 V for current peak value n=30 rated value - up to 200 V for current peak value n=30 rated value - up to 200 V for current peak valu		
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • u		
operating power for approx. 200000 operating cycles at AC-4		
at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • 2.7 kVA 2.2 kVA 2.9 kVA 1.15 kW 4.1 kVA 1.2 kVA 2.9 kVA 5.7 kVB 2.9 kVA 5.0 kVA		TAV
a ta 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value in the form withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 50 s switching at zero current maximum ilimited to 60 s switching at zero current maximum no-load switching frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 ma		
Operating apparent power at AC-6a	at 400 V rated value	1.15 kW
Operating apparent power at AC-6a	at 690 V rated value	1.15 kW
up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value sup to 40 °C il imited to 1 s switching at zero current maximum il imited to 5 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum il imited to 60 s switching at zero current maximum at AC-3 maximum at AC-4 maximum at AC-3 maximum at AC-4 maximum at AC-3 maximum at AC-4 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum a		
• up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at AC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maxim		1.5 kVA
• up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at AC 1 operating frequency • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-1 rated value • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • apparent pick-up power of magnet coil at AC		
up to 690 V for current peak value n=20 rated value operating apparent power at AC-5a up to 230 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum olimited to 60 s switching at zero current maximum alimited to 60 s switching at zero current maximum oload switching frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum tat AC-3 maximum tat AC-3 maximum at AC-3 maximum tat AC-3 maximum tat AC-4 maximum tat AC-3 maximum tat AC-3 maximum tat AC-3 maximum tat AC-3 maximum tat AC-4 maximum tat AC-3 maximum		
operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 1		
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up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at AC operating frequency • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz apparent pick-up power of magnet coil at AC		2.0 ((7))
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 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-9 maximum at AC-1 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at BAC-8 maximum at BAC-9 maximum at BAC-1 rated value at BAC-1 rated value at BAC-2 maximum at BAC-3 maximum at BAC-3 maximum at BAC-3 maximum at BAC-4 maximum at BAC-4 maximum at BAC-5 maximum at BAC-6 maximum at BAC-7 maximum at BAC-1 rated value at BAC-2 maximum at BAC-1 rated value at BAC-2 maximum at BAC-2 maximum at BAC-2 maximum at BAC-2 maximum at BAC-3 maximum at BAC-1 rated value at		
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 e maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 Inh at AC-4 maximum at AC-5 Inh at AC-5 Inh at AC-6 Inh at AC-7 Inth at AC-8 Inh at AC-9 Inh at AC-9 Inh at AC-1 Inted value at AC-1 rated value AC at AC-1 maximum at AC-1 maximum at AC-3 Inh at AC-3 Inh at AC-4 maximum at AC-4 maximum at BAC-4 maximum at BAC-4	-	
Imited to 60 s switching at zero current maximum no-load switching frequency It at AC It at AC It at AC It at AC-1 maximum It at AC-2 maximum It at AC-3 maximum It at AC-3 maximum It at AC-3 maximum It at AC-4 maximu		
no-load switching frequency • at AC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 50 Hz • at 60 Hz • at 60 Hz apparent pick-up power of magnet coil at AC		
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control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz o at 60 Hz o at 60 Hz apparent pick-up power of magnet coil at AC	-	10
 at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz apparent pick-up power of magnet coil at AC 		AC
 at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz apparent pick-up power of magnet coil at AC 		04.1/
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC		
value of magnet coil at AC		24 V
 at 50 Hz at 60 Hz apparent pick-up power of magnet coil at AC 		
• at 60 Hz 0.85 1.1 apparent pick-up power of magnet coil at AC	_	0.0 4.4
apparent pick-up power of magnet coil at AC		
		0.00 1.1
● at 50 HZ		27.1/4
	● at 50 ⊓Z	ZIVA

4.00.11	04.0344
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the	
coil	0.05
at 50 Hz at 60 Hz	0.25 0.25
	0.25
closing delay	0 25 mg
	9 35 ms
opening delay	4 45 ***
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	10 A
 at 400 V rated value 	3 A
 at 500 V rated value 	2 A
 at 690 V rated value 	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
 at 600 V rated value 	0.15 A
operational current at DC-13	
 at 24 V rated value 	10 A
 at 48 V rated value 	2 A
 at 60 V rated value 	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
• for 3-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
e for abort aircuit protection of the availiant switch	80kA)
for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)

nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
-	according to DIN EN 60715
 side-by-side mounting 	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
onnections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 12)
connectable conductor cross-section for main contacts	_x (_0,
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	
section	
• for main contacts	20 12
 for auxiliary contacts 	20 12
afety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes; with 3RH29
B10 value with high demand rate according to SN 31920	1 000 000

proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

safety-related switching OFF

40 %

73 %

100 FIT

20 y

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval



Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination **Certificate**





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Marine / Shipping









Confirmation





Marine / Shipping

other

Vibration and Shock

Railway



Confirmation





Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2AB01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2AB01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AB01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

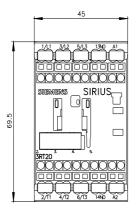
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2AB01&lang=en

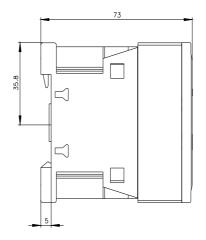
Characteristic: Tripping characteristics, I2t, Let-through current

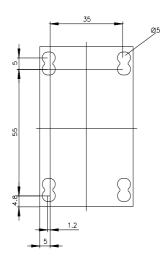
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AB01/char

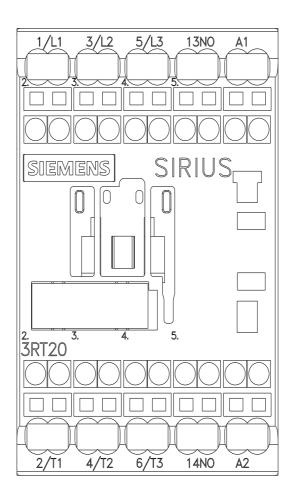
Further characteristics (e.g. electrical endurance, switching frequency)

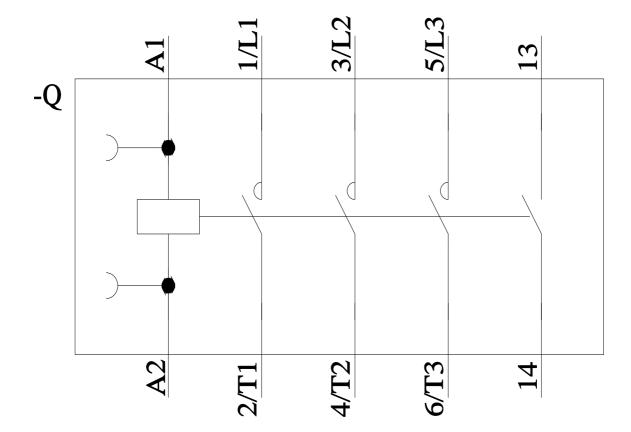
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2AB01&objecttype=14&gridview=view1











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